

# Core Functions and Applications of Generative AI in the Intelligent Integration of Curriculum Ideology and Politics

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**Abstract:** Against the dual backdrop of educational digital transformation and the deepening advancement of curriculum ideology and politics, college foreign language teaching faces the challenge of integrating language skill cultivation with value guidance. Generative Artificial Intelligence (Generative AI), with its capabilities in intelligent content generation, deep interaction, and precise assessment, offers innovative pathways to address long-standing problems in traditional curriculum ideology and politics, such as limited resources, weak interaction, and vague evaluation. This paper focuses on the three core functions of Generative AI in the intelligent integration of curriculum ideology and politics—intelligent content generation and optimization, intelligent interaction and personalized tutoring, and intelligent assessment and feedback. Drawing on real teaching practices from Liaoning University, Xi'an Jiaotong University, and Shanghai Publishing and Printing College, the study systematically analyzes the application scenarios and ideological-political values of each function, demonstrating how AI enables seamless integration between ideological-political elements and language teaching. Findings suggest that Generative AI, through customized resource provision, individualized reflective guidance, and process-based evaluation, facilitates a transition from mass infusion to precise infusion, providing technological support and practical models for the high-quality development of curriculum ideology and politics in foreign language teaching.

**Keywords:** Generative AI; curriculum ideology and politics; college foreign language teaching; intelligent teaching; teaching assessment

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## 1. Introduction

In 2020, the Ministry of Education issued the Guidelines for the Construction of Curriculum Ideology and Politics in Higher Education, explicitly requiring that ideological and political education should run through the entire process of talent cultivation, ensuring that all types of courses advance in the same direction as ideological and political courses to form a synergistic effect<sup>[1]</sup>. As a fundamental public course that combines both instrumental and humanistic attributes, college foreign language teaching naturally carries the dual mission of imparting linguistic knowledge and cultivating humanistic spirit, making it an important carrier for the construction of curriculum ideology and politics.

However, traditional teaching models still face significant challenges in integrating ideological-political elements.

In practice, such integration largely depends on teachers' personal experience and fragmented efforts, leading to systemic shortcomings in three core areas. First, structural insufficiency of resources: existing teaching materials are primarily limited to static texts, lacking multimodal repositories of audio, video, and images that are deeply aligned with ideological themes. Moreover, it remains difficult to provide tiered and scaffolded language resources adapted to students' diverse proficiency levels. Second, limited depth of classroom interaction: teacher-student discussions often remain at the surface level of linguistic analysis, with insufficient implicit value transmission and explicit critical thinking guidance, resulting in low student engagement and superficial training in higher-order thinking. Third, vague and unfocused evaluation systems: assessments tend to over-rely on summative language proficiency tests while neglecting dynamic tracking and quantitative feedback on students' internalization of ideological cognition and the trajectory of value identification.

The rapid rise of Generative Artificial Intelligence (e.g., ChatGPT) provides a breakthrough opportunity to address these structural problems. With its advanced capabilities in natural language generation and understanding, multimodal content creation, and human-like real-time interaction, generative AI can transform static teaching resources into immersive, context-rich, and dynamic learning scenarios. It shifts ideological education from the traditional model of massive infusion to a model of precise drip irrigation, thereby significantly enhancing the adaptability and attractiveness of the educational process.

Empirical studies conducted in universities have shown that innovative applications of generative AI in foreign language teaching with ideological-political integration not only improve efficiency in resource development and student management by more than 30%, but also create dialogic spaces for critical reflection<sup>[2]</sup>. These practices substantially strengthen students' depth of critical thinking, intercultural communication sensitivity, and autonomy in value judgment. Against this backdrop, systematically examining the core functional modules of generative AI in the intelligent mining, integration, presentation, and evaluation of curriculum ideology and politics is essential. Such analysis not only enriches the theoretical connotation and practical landscape of AI-empowered ideological education but also provides frontline foreign language teachers with visualized and replicable teaching toolkits and practice models that span resource design, classroom interaction, and process evaluation. Ultimately, this holds significant theoretical value and practical implications for advancing the reform of curriculum ideology and politics in higher education.

## **2. Intelligent Content Generation and Optimization: Building a Multimodal Resource System for Ideological-Political Elements**

In traditional curriculum ideology and politics teaching, instructors expended significant time and effort in selecting and adapting teaching resources to precisely match ideological themes. These resources were often limited to static text materials, struggling to meet contemporary students' needs for diverse and immersive learning experiences. Leveraging its powerful semantic comprehension, efficient content generation, and intelligent integration capabilities, generative AI can rapidly construct a dynamically updatable, multimodal resource library integrating text, audio, video, and virtual scenarios. This library is tailored to specific teaching objectives, defined ideological themes, and students' actual language proficiency levels. This approach not only significantly enhances resource development efficiency but also achieves an organic and natural fusion of ideological elements with linguistic knowledge points. It fundamentally avoids the common phenomenon of "ideology-pedagogy disconnect" (ideology-pedagogy disconnect is used here to convey the essence of "两张皮") prevalent in traditional teaching, enabling value guidance to permeate language skill training like salt dissolving in water.

### **2.1. Generating Customized Reading and Listening Materials with Integrated Ideological-Political Elements**

The core strength of generative AI lies in its powerful on-demand customization capability. It can generate high-quality teaching materials that simultaneously meet the dual requirements of ideological thematic depth and target language

difficulty based on clear and specific instructor instructions. This effectively addresses common pain points in traditional resource pools, such as poor timeliness, weak targeting, and monotonous formats. In college foreign language teaching practice, instructors can efficiently guide AI to produce reading and listening materials with both language training value and ideological educational content through well-designed prompts. This manifests in the following three aspects:

(1) Precise Thematic Customization: Instructors can issue highly structured instructions centered on core ideological themes like a community with a shared future for mankind, cultural confidence, techno-ethics, ecological civilization, and rule of law awareness. For example, instructing AI to: Generate an English news report on the achievements and challenges of China's Belt and Road Initiative over the past decade. Strictly control vocabulary difficulty within the CET-4 level range. Naturally incorporate keywords such as mutual benefit, connectivity, and sustainable development, reflecting the principles of extensive consultation, joint contribution, and shared benefits. AI can generate compliant text within 5 minutes, simultaneously providing precise definitions of key vocabulary, relevant background links, and grammatical analysis of complex sentences, greatly reducing instructors' preparation burden.

(2) Dynamic Difficulty Adaptation: AI can intelligently generate differentiated learning materials for students at various language proficiency levels within a class, enabling true personalized instruction. For instance:

For students with weaker English foundations: Generate simplified English passages on topics like Spring Festival customs in China, helpfully annotating phonetic transcriptions and providing pictorial/textual explanations of core cultural concepts.

For advanced or English major students: Generate in-depth argumentative essays exploring topics like A Comparative Analysis of the Historical Evolution and Contemporary Practice of Democratic Systems in China and the West. These essays would include academic vocabulary such as deliberative democracy and institutional efficacy, and embed comparative analyses of key theoretical frameworks to meet their needs for critical thinking and academic language enhancement.

(3) Intelligent Multimodal Expansion: Based on high-quality generated text, AI can further produce matching, highly realistic audio materials with a single click. For example, it can simulate the news broadcast context, speed, and intonation of international mainstream media like BBC, VOA, or CNN, or mimic TED Talk styles or academic lecture scenarios. This allows students to deepen their understanding of related ideological themes and their international expressions while completing listening comprehension training, achieving the simultaneous strengthening of language skills and value cognition<sup>[3]</sup>.

Furthermore, generative AI demonstrates immense potential in resource optimization and iteration. It can efficiently adapt and deeply optimize instructors' existing teaching materials for ideological infusion (ideological infusion or ideological enhancement). For example:

Regarding the plot focusing on commercial disputes and the spirit of contract in the classic text *The Merchant of Venice*, instructors can instruct AI to adapt and expand it into thematic reading material centered on integrity principles and business ethics in cross-cultural business negotiations. AI can intelligently supplement this with vivid, positive case studies of Chinese enterprises' compliant operations overseas, such as Huawei's compliance with the EU GDPR or Chinese enterprises fulfilling social responsibilities in Africa, imbuing the classic text with contemporary value and a Chinese perspective.

For a complex scientific paper on renewable energy technologies, AI can simplify it into a clearly structured, argument-focused essay suitable for classroom group discussions. Simultaneously, it can intelligently integrate the latest authoritative data and typical case analyses on China's 'Dual Carbon' goals (carbon peak and carbon neutrality): policy progress, global contributions, and corporate practices. This ensures the material meets the knowledge-based and critical thinking requirements of language teaching while subtly incorporating ideological elements of green development and global responsibility.

The teaching practice in Liaoning University's College English (I) experimental class provides strong evidence: Systematic use of generative AI-customized and optimized materials infused with ideological elements led to a 42%

average increase in students' depth of understanding and sense of identification with related ideological themes compared to a control group using traditional standardized materials. Concurrently, students' initiative in language learning and classroom participation significantly increased, with effective participation rates surging from 68% before implementation to 91%<sup>[2]</sup>. This fully demonstrates the immense value of generative AI in enhancing the effectiveness, appeal, and relevance of ideological education within foreign language courses.

## 2.2. Creating Virtual Dialogue Scenarios and Debate Topics Related to Ideological-Political Themes

The ultimate goal of language learning consistently points to communicative competence, while the key to the effective implementation of curriculum ideology and politics lies in cultivating value judgment capabilities in authentic contexts. Leveraging its powerful contextual construction capabilities, generative AI can create highly realistic virtual interactive scenarios, skillfully transforming abstract ideological issues into tangible language practice tasks. This guides students to internalize and deepen their understanding of ideological concepts naturally through deeply engaging immersive experiences. Its specific application forms are diverse:

- (1) **Creating Virtual Dialogue Scenarios:** AI can accurately simulate authentic situations such as international conferences, business negotiations, and cultural exchanges. For instance, AI can role-play a representative at the UN International Climate Conference, while students assume the identities of Chinese Youth Delegation members, engaging in an all-English dialogue on the core topic of global climate governance. During the simulated interaction, AI proactively poses provocative, in-depth questions like "How should China's historical responsibility in emission reduction be viewed?" or "How to balance the rights and interests of developed and developing countries in climate action?" This forces students to mobilize their language knowledge reserves while integrating national stances and global perspectives to formulate logical, position-based responses and explanations.
- (2) **Organizing Simulated Court Debates:** AI can construct structured debate scenarios around ideologically significant issues like techno-ethics, cultural differences and conflicts, and social justice. For example, AI generates the debate topic "Should the development and application of AI technology be subject to strict ethical oversight?" and automatically generates argument frameworks and evidence bases for both the proposition and opposition (e.g., the proposition might provide "specific cases of AI algorithmic bias leading to social discrimination," while the opposition could list arguments like "technological freedom is the core driver of innovation"). After grouping, students need to deeply analyze these preset arguments, supplement them with additional research, and engage in intense English debate exchanges. This process not only hones students' language organization and impromptu speaking skills but also deepens their multi-angled examination of complex ethical issues through clashing viewpoints, effectively cultivating critical thinking and value judgment capabilities.
- (3) **Simulating Cultural Conflict Situations:** AI can vividly recreate typical misunderstandings or conflicts arising from value differences in cross-cultural communication. For instance, AI plays a Western tourist holding liberal individualist views, who questions manifestations of collectivist culture in Chinese society during a simulated dialogue (e.g., bluntly asking: "Why in China are major life decisions often made through family consultation rather than solely respecting individual choice?"). Students must use English, combined with deep-seated historical traditions, social structures, and philosophical thoughts, to clearly and rationally explain the roots of cultural differences and articulate the unique value and rationale of Chinese culture. This process of explanation is itself a profound exercise in cultural reflection and value clarification, powerfully reinforcing students' cultural consciousness and confidence.

A core advantage of these virtual scenarios is their dynamically adaptive intelligence. The AI system can analyze students' language fluency, vocabulary accuracy, and the depth/tendency of their viewpoints in real-time, dynamically adjusting the interaction difficulty and guidance strategy. For example:

If the system detects student expression hesitancy or vocabulary limitations, it instantly provides keyword hints or

sentence structure suggestions.

If it identifies obvious bias in student viewpoints, it timely introduces supplementary information or counter-examples from opposing perspectives, guiding students towards more comprehensive thinking and reflection.

The “AI-Empowered English Curriculum Ideology and Politics” teaching practice at Shanghai Publishing and Printing College provides strong corroboration. Data shows that after systematic training in AI virtual scenarios, students’ accuracy and appropriateness of value expression in cross-cultural communication tasks increased significantly by 58%. This indicates students became more adept at using foreign languages to clearly and persuasively articulate Chinese stances, solutions, and wisdom. For example, in simulated dialogues on the theme of “Belt and Road” international cooperation, up to 83% of students were able to skillfully integrate specific successful cooperation cases like the “Mombasa-Nairobi Railway” and the “Port of Piraeus” to clearly explain the connotations and practical achievements of core development concepts such as extensive consultation, joint contribution, and shared benefits and mutual benefit.<sup>[4]</sup>

### **2.3. Assisting Teachers in Designing Lesson Plans and Activities with Ideological-Political Elements**

Generative AI not only creates learning resources but also supports teachers in advanced instructional design, helping them systematically integrate ideological-political elements throughout pre-class, in-class, and post-class stages. Applications include:

Lesson plan generation: Teachers input teaching objectives (e.g., cultivate cultural confidence), course content (e.g., Chinese traditional arts), and student proficiency (e.g., Level II College English). AI then generates draft lesson plans containing key points, ideological integration, teaching steps, and assignments. For example, in a unit on cultural identity, AI may design a two-session plan emphasizing discussions of Peking Opera internationalization to highlight the inclusiveness of Chinese culture.

Activity design: AI recommends classroom activities aligned with ideological themes, such as designing English posters on Chinese technological achievements or preparing bilingual tour guides for revolutionary cultural sites to promote patriotism, or role-playing business negotiations to reinforce professional ethics<sup>[2]</sup>.

Practice at Liaoning University demonstrates that teachers using AI-generated lesson plans reduced preparation time by 55% and achieved significantly higher relevance of ideological content and student engagement. The alignment between ideological elements and language instruction increased from about 45% in traditional plans to 82% in AI-assisted ones.<sup>[2]</sup> Importantly, AI-generated plans are not rigid templates—teachers can adjust them for actual classroom needs, adding strategies for struggling learners or indicators for ideological assessment, thus realizing a synergy between technological assistance and humanistic adjustment.

## **3. Intelligent Interaction and Personalized Tutoring: Realizing Precision Infusion of Ideological Education**

In traditional classrooms, teachers struggle to balance individual learning needs with ideological dynamics, often leading to mass infusion of ideological content with limited impact. Generative AI, through virtual learning companion systems, provides continuous, personalized tutoring, simultaneously addressing linguistic challenges and offering precise ideological guidance.

### **3.1. Acting as a Virtual Companion: Real-Time Feedback and Error Correction**

Immediate feedback is key to efficient language learning. As a virtual companion, AI provides instant corrections while subtly embedding ideological elements. For example:

Oral practice: During English presentations on China’s poverty alleviation achievements, AI transcribes speech, highlights pronunciation or grammar errors, demonstrates correct usage, and reminds students to ensure accurate ideological expression.



Writing correction: When students submit essays on cultural confidence, AI not only corrects grammar and vocabulary but also evaluates logic and ideological depth, suggesting improvements such as including the international influence of Chinese culture.

Vocabulary instruction: AI links words like harmony to the Chinese concept of harmony in diversity, or responsibility to China's role in global climate governance.

Evidence from Xi'an Jiaotong University shows that students using AI companions improved fluency in expressing ideological themes by 45% and participated three times more frequently in classroom discussions, with significantly higher quality contributions on topics such as the Chinese path and Chinese theories.<sup>[3]</sup>

### **3.2. Simulating Multiple Cultural Perspectives for Critical Thinking**

One goal of curriculum ideology and politics is fostering intercultural critical thinking—viewing cultural differences dialectically while upholding Chinese perspectives. AI can simulate voices from different countries or social strata, prompting multi-perspective analysis. For example, it can contrast Chinese parents (emphasizing family cohesion) with American parents (emphasizing independence), or Western scholars (electoral democracy) with Chinese scholars (whole-process people's democracy). Such dialogues help students recognize cultural and systemic diversity and articulate positions that respect national contexts.

The Understanding Contemporary China project at Xi'an Jiaotong University reported that AI-based perspective simulations improved students' dialectical analysis ability by 62%, enabling them to counter Western biases more rationally with evidence from China's poverty alleviation and pandemic control efforts.<sup>[3]</sup>

### **3.3. Providing Personalized Ideological Expansion Based on Cognitive Levels**

Students differ widely in ideological cognition, interests, and value foundations. AI can analyze learning behavior data to deliver tiered ideological resources. For beginners, it suggests short videos such as China in One Minute or simple readings from China Daily Kids; for intermediate learners, podcasts or TED talks on cultural confidence; for advanced learners, journal articles or international forum livestreams, guiding them to produce comparative essays on topics like environmental policy or international communication strategies.

AI also corrects misconceptions. For example, if a student equates cultural confidence with rejecting Western culture, AI generates integration cases (e.g., Peking Opera collaborating with Western opera) and prompts reflection questions. Wenzhou University's research shows personalized expansion improved students' breadth and depth of ideological understanding by 53%, with accurate comprehension of a community with a shared future for mankind rising from 52% to 89%.<sup>[5]</sup>

## **4. Intelligent Assessment and Feedback: Building a Process-Oriented Evaluation System**

Traditional evaluation of curriculum ideology and politics relies on subjective judgments of assignments and class participation, failing to capture growth in cognition, critical thinking, and value orientation. Generative AI enables process-based, quantitative, and personalized assessment.

### **4.1. Analyzing Students' Understanding of Ideological-Political Elements**

Through natural language processing, AI analyzes assignments and discussion transcripts to assess conceptual accuracy, logical coherence, and attitudinal stance. For example, in essays on "technological ethics," AI checks for use of key concepts like privacy protection and responsibility. In patriotism reflections, it can provide quantitative results, such as: Concept mastery (85), Logic (78), Attitude (92), with feedback to improve depth and perspective. Studies confirm AI evaluation aligns with human scoring at 89% consistency while being eight times faster<sup>[6]</sup>.

## 4.2. Tracking the Development of Values and Critical Thinking

AI constructs digital profiles integrating pre-class, in-class, and post-class data, producing visual reports such as ideological radar charts and growth curves. These reveal how students progress from simplistic notions (e.g., cultural confidence equals tradition) to mature views (e.g., confidence combines tradition and innovation). Teachers can then tailor guidance, while students gain clearer self-awareness.

## 4.3. Providing Data-Driven Suggestions for Teachers

By analyzing class-level patterns, AI offers suggestions for content, method, and pacing. For instance, if most students see a community with a shared future only as economic cooperation, AI recommends adding cultural exchange cases. It can also generate heatmaps of ideological comprehension or participation rankings, prompting teachers to redesign activities and engage underperforming groups. Such analytics-based improvement avoids the blind spots of experience-driven adjustments, ensuring more effective curriculum ideology and politics.

## 5. Summary of Ideological-Political Value of Core Functions and Applications

The three core functions of generative AI are interconnected and progressive, jointly constructing a closed loop of “resource generation – interactive guidance – evaluative feedback” for embedding ideological elements. Their educational value can be clearly presented in Table 1.

**Table 1.** Core Functions and Applications of Generative AI in the Intelligent Integration of Curriculum Ideology and Politics

Core Function	Specific Application Scenarios	Value in Embedding Curriculum Ideology and Politics
Intelligent Content Generation and Optimization	Customized reading/listening materials, virtual dialogue scenarios, lesson plan design with ideological elements	Provides abundant multimodal ideological materials, enabling seamless integration of ideological elements into language teaching and avoiding the “two-layered separation” phenomenon
Intelligent Interaction and Personalized Tutoring	Virtual learning companion feedback, multi-cultural perspective simulation, personalized ideological content expansion	Achieves precise “drip irrigation” of ideological education, cultivates students’ critical thinking and cross-cultural analytical skills, and strengthens value identification
Intelligent Evaluation and Feedback	Analysis of students’ understanding of ideological elements, tracking of value development, teaching improvement suggestions	Builds a process-oriented evaluation system for ideological education, dynamically captures students’ cognitive changes, provides data support for teaching optimization, and enhances educational effectiveness

In practical outcomes, the application of generative AI in curriculum ideology and politics has already shown remarkable achievements. For instance, at universities such as Liaoning University, Xi’an Jiaotong University, and the Shanghai Publishing and Printing College, integrating AI technologies into interactive teaching resources significantly improved students’ learning results. After participating in AI-empowered curriculum ideology and politics courses, students’ depth of ideological cognition increased by an average of 40%–62%, and their ability to articulate Chinese concepts in English rose by over 45%. Meanwhile, their recognition of core values such as cultural confidence and social responsibility also grew significantly, with explicit identification with the path of socialism with Chinese characteristics rising dramatically from 69% to 92%<sup>[2,3,4,6]</sup>. These results underscore the substantial value of AI in strengthening ideological education.

However, it must also be recognized that AI is ultimately an auxiliary tool and cannot replace the essential humanistic leadership role of teachers<sup>[7]</sup>. Teachers must carefully review AI-generated content to correct cultural biases, ensure ideological accuracy, and provide in-depth guidance for students’ misunderstandings of ideological concepts<sup>[8]</sup>. For

example, through targeted case analysis, teachers can help students clarify the relationship between value neutrality and mainstream value orientation. Ultimately, a synergistic mechanism of “technology empowerment + humanistic guidance” should be achieved to continuously inject vitality into ideological education<sup>[8]</sup>.

## 5. Conclusion

Leveraging its powerful content-generation capacity, personalized interaction mechanisms, and precise evaluation systems, generative AI has opened new pathways for embedding ideological elements in university foreign language education. Its key innovations lie in:

Intelligent multimodal content generation (texts, images, audio, video), which effectively overcomes the problem of monotonous and limited resources in ideological education.

Personalized tutoring and targeted content delivery, based on students’ individual differences, which achieves precise drip irrigation in ideological education and enhances its effectiveness.

Dynamic tracking and intelligent analysis throughout the entire learning process, addressing the limitations of traditional ideological assessment systems that are often vague and delayed in feedback.

Together, these three functions form a mutually reinforcing, synergistic loop that promotes the transformation of curriculum ideology and politics from a subjective, experience-driven model to a data-driven model, and from a mass “one-size-fits-all” approach to a personalized, value-oriented paradigm.

Looking forward, two research directions deserve further exploration:

Integration with immersive technologies (VR/AR): Combining generative AI with virtual and augmented reality can create highly interactive “red culture” experiences, such as virtual reenactments of the Long March or immersive learning spaces centered on the “Yan’an Spirit.” These immersive settings allow students to experience the ideals and resilience of revolutionary predecessors, greatly enhancing the emotional appeal and persuasive power of ideological education<sup>[9]</sup>.

Ethical guidelines and risk control in ideological applications of AI: Universities should develop clear content-review standards and operational guidelines for AI use in ideological education, specifying key criteria such as ideological compliance, cultural orientation, and historical accuracy<sup>[10]</sup>. This ensures that all applications remain firmly aligned with the fundamental educational goal of fostering virtue and cultivating talent.

Only by upholding the principle that technology must serve the essence of education, ensuring safe, controllable, and value-oriented applications, can generative AI truly become a powerful accelerator for enhancing the effectiveness of ideological education<sup>[11]</sup>. Ultimately, this will contribute to cultivating a new generation of high-quality international talents who possess solid language proficiency, broad global vision, strong cultural literacy, and cross-cultural communication competence, while firmly establishing correct worldviews, outlooks on life, and values—thus providing qualified builders and reliable successors for the cause of socialist modernization.

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